NEWZEN CONSULTANT Bangalore

NC/QC/BD/2021-22/SJ-C1 Date: 02-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.16%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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NEWZEN CONSULTANT Bangalore

NC/QC/BD/2021-22/SJ-PCC1 Date: 02-06-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.75	0 -20	30- 70
10mm	30.20	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.35	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.05	60-95	75-100	85-100	
01.18	71.80	30-70	55-90	75-100	
600.mic	45.15	15-34	35-59	60-79	
300.mic	24.55	5-20	8-30	12-40	
150.mic	6.20	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

Assistant Executive Engineer
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For Newzen Consultants Bangalore
Proprietor

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NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/BD/2021-22/SJ-CE1 Date: 07-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.92 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.54 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

20.06.21
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

For Newzen Consultants Bangalore
Proprietor

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NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/BD/2021-22/SJ-FA2 **Date: 07-06-2021**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.25**	60-95	75-100	85-100	
01.18	**71.05**	30-70	55-90	75-100	
600. mic	**45.80**	15.34	35-59	60-79	
300.mic	**23.50**	5-20	8-30	12-40	
150.mic	**7.35**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.67%**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.

For Newzen Consultants Bangalore

Proprietor

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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NC/QC/BD/2021-22/SJ-CA2 Date: 07-06-2021

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.70	85-100	90 - 100
10 mm	44.15	0 - 20	25 - 55
4.75 mm	3.85	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	25.46%	Not to exceed 25 %
2.	Crushing value	28.71 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

For Newzen Consultants Bangalore
Proprietor

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2021-22/SJ-S1 **Date: 07-06-2021**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8 and 10 mm **TMT Steel.**
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.398**	0.363	**0.621**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**562.0**	500.0	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.80**	12.00	**20.60**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**646.0**	545.0	**643.0**	545.0

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/BD/2021-22/SJ-CB1

Date: 15-06-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-06-21	15-06-21	08	22500	365	16.22	**16.30**
	002	‘’	“	‘’	“	360	16.00	
	003	‘’	“	‘’	“	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

For Newzen Consultants Bangalore
Proprietor

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NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2021-22/SJ-CB2

Date: 18-06-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-06-21	18-06-21	07	22500	365	16.22	**16.15**
	002	‘’	“	‘’	“	370	16.44	
	003	‘’	“	‘’	“	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

Assistant Executive Engineer
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For Newzen Consultants Bangalore
Proprietor

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NC/QC/BD/2021-22/SJ-CB3

Date: 21-06-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-06-21	21-06-21	07	22500	375	16.67	**16.74**
	002	‘’	“	‘’	“	385	17.11	
	003	‘’	“	‘’	“	370	16.44	

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

For Newzen Consultants Bangalore

Proprietor

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NC/QC/BD/2021-22/SJ-CB1A

Date: 07-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-06-21	07-07-21	28	22500	500	22.22	**22.44**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.

For Newzen Consultants Bangalore
Proprietor

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NC/QC/BD/2021-22/SJ-CB2A

Date: 09-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-06-21	09-07-21	28	22500	525	23.33	22.96
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

Asst. Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024.

For Newzen Consultants Bangalore
Proprietor

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NC/QC/BD/2021-22/SJ-CB3A

Date: 12-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Roads in Ward No 05 Surrounding areas in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: N. Thirunagendra.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-06-21	12-07-21	29	22500	495	22.00	22.22
	002	‘’	“	‘’	“	500	22.22	
	003	‘’	“	‘’	“	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.

Assistant Executive Engineer
Byatarayanapura Sub Division

For Newzen Consultants Bangalore
Proprietor

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